

Program Description/Textbook or Print Instructional MaterialVendor: Pearson Education, Inc., publishing as Pearson Prentice Hall Web Address: www.phschool.comTitle: Introductory DC/AC ElectronicsAuthor: Nigel P. Cook Copyright: 2002ISBN: 0-13-031085-9 Course/Content Area: Industrial Education: Electronics TechnologyIntended Grade or Level: 9-12 Readability Level: Not AvailableList Price: \$ 98.63 Lowest Wholesale Price: \$ 73.97Level of Accommodations (Level One, Two, or Three) Three

If Level Two or Three, please provide rationale for not meeting Level One Compliance. Pearson Prentice Hall
is unable to provide files in Levels One or Two due to the variety of page layout systems used to create the text.
These systems are not compatible with specialized formats such as XML or HTML.

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

This text provides a step-by-step method of instruction and examples, illustrations, and industry photographs. A running glossary in the margin of the text gives students quick access to new terms and a convenient source of review. Reference summary sheets provide a quick guide to all key facts, symbols, circuits, characteristics and formulas. The circuit simulation CD-ROM provides students with circuits from the text in Electronics Workbench and mini-math reviews help students reinforce math concepts.

Student Experiences

Students will be excited and stimulated to perform with the Electronics Workbench and will use the materials provided in the text to further their understanding of the concepts being taught. Icons and summaries as well as margin notes give students a further lead in learning. Job Interview Tests challenge students' technical knowledge and test their character traits with personal questions.

Assessment

Assessment activities are built into the materials along with summary sheets and a running glossary for review activities and mini-self-tests. The WIN PH Test Manager can be used by the instructor for additional testing assessment opportunities. Job Interview Tests are also an assessment tool provided with this text.

Organization

The 991 page text is divided into chapters that take the student from the basics of electronics to more advanced concepts of circuitry.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

Free upon request, 1 per teacher user with a minimum purchase of 20 Introductory DC/AC Electronics Student Editions:

- ☞ Instructor's Manual
- ☞ Instructor's Answer Key
- ☞ Student Lab Manual
- ☞ WIN PH Custom Test Manager
- ☞ Electronics Workbench CD-ROM

- **Available Ancillary Materials**

Website: www.prenhall.com

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

The text and the ancillaries have been researched and reviewed thoroughly by electronics experts in the field as well as educational experts who teach electronics. The materials have been tested for accuracy of content and appropriateness of teaching methods.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool Manufacturing Career Cluster



Title: Introductory DC/AC Electronics		Cost \$73.97	
Publisher: Prentice Hall			
Item Evaluated: Textbook & Lab Manual—Instructor's Resource Manual & CD			
Copyright Date: 2002		Evaluator: Tomlinson/Wilson	
Content Level: 9-12		Date of Evaluation: 7/29/03	
Level of Alternative Format	Level 1 – Full Compliance	Level 2 – Provisional Compliance	Level 3 – Marginal Compliance
This section completed by Exceptional Children Services			

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions. They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:
<input checked="" type="checkbox"/> Recommended by reviewers to State Textbook Commission
<input type="checkbox"/> Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



**Group V - Career/Technical
Vocational/Practical Living Education
Instructional Materials Evaluation Tool
Manufacturing Career Cluster**



Title: Introductory DC/AC Electronics		Publisher: Prentice Hall	
Technology Management Summary Data:		20 possible points	_____11_____ points earned
Technology Management Comments:			
Technology Presentation/Interface Summary Data:		36 possible points	_____31_____ points earned
Technology Presentation/Interface Comments:			
Content Summary Data:		140 possible points	_____37_____ points earned
Content Comments:			
Instruction & Management Summary Data		52 possible points	_____45_____ points earned
Instruction & Management Comments:			
Organization & Structure Summary Data		36 possible points	_____33_____ points earned
Organization & Structure Comments:			
Resource Material Summary Data		40 possible points	_____26_____ points earned
Resource Material Comments:			



Group V - Career /Technical & Vocational/Practical Living

Electronic Instructional Media Review Form

Stand Alone/Independent or Integrated Software for Manufacturing Career Cluster



Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____	
Windows	Primary	Individual	Stand Alone/Independent	_____ single copy	_____ site license
Macintosh	Intermediate	Small Group	Integrated	_____ network version	_____ school version
CD-ROM	Middle	Large Group	Supplemental	_____ lab pack of _____ copies	_____ online
DVD	High		In lieu of basal test		
Sound					
Other					

If other, explain _____

Type of Software: Check all that apply	____x____ Simulation	____ Management	____ Interdisciplinary	____x____ Problem Solving	____ Tutorial
____ Exploratory	____ Creativity	____ Drill and Practice	____ Critical Thinking	____ Utility	____ Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	4
Allows students to exit and resume at a later time.	4
Keeps a students performance record, where needed.	1
Allows control of various aspects of the software (e.g., turning sound off).	1
Allows for printed reports.	1
Comments:	Total
	11

Presentation/Interface	Rating
Presents material in an organized manner.	4
Has consistent, easy-to-use, on-screen instructions.	3
Has developmentally correct presentation format.	3
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	2
Accessible for special needs students.	2
Runs smoothly, without long delays.	3
Presents easy-to-view text and graphics.	4
Presents easy-to-hear and understand sounds.	3
Avoids unnecessary screens, sounds, and graphics.	4
Provides immediate, appropriate feedback.	3
Comments:	Total
	31

Content— Manufacturing Career Cluster	Rating
Electrical/Electronic Safety	1
Direct Current Circuits/Lab	4
Alternating Current/Lab	4
Electrical Principals	4
Electronic Devices and Circuits	4
Electronic Drafting	4
Microcomputer Operating Systems	0
Fundamentals of Machine Tools	0
Applied Machining	0
Manual Programming CAD/CAM/CNC	0
Blueprint Reading	4
Computer Fundamentals	0
Fluid Power/Lab	0
Industrial Maintenance Electric Motor/Lab	0

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Content— Manufacturing Career Cluster	Rating
Maintaining Industrial Equipment	0
Industrial Safety	0
Pneumatic Systems/Lab	0
Technical Communications	0
Technical Math	4
SMAW Plate Labs	0
Gas Tungsten Arc Welding/Lab	0
Certification Welding/Lab	0
Oxy-fuel Cutting Lab	0
Wood Product Manufacturing	0
Wood Finishing	0

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Content— Manufacturing Career Cluster	Rating
Technical Drawing and Blueprint Reading	4
Millwork Technology	0
Furniture Technology	0
Basic Refrigeration and Air Conditioning	0
Electrical Components and Test Equipment	4
Gas/Electric Appliance Applications	0
Maintenance of Industrial Equipment	0
Polymer Science and Testing	0
Environmental Practices	0
Project Lead The Way (Pre-Engineering)	0
Comments:	Total 37

Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable

Instruction and Assessment	Rating
Identifies a Sense of Purpose	4
Builds on Student Ideals	2
Engages Students	3
Develops Computer Maintenance Ideas	1
Promotes Student Thinking	4
Assesses Student Progress	4
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	3
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	4
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	4
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	4
Comments:	Total 45

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	2
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	3
Student materials seem durable and conducive to daily use.	4
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 33

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	2
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	4
Extension activities including adaptations and accommodations for students with special needs.	3
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	3
Suggestions are made for integration of themes and /or interdisciplinary instruction.	2
Integration opportunities suggested and examples given.	2
Teacher resources are available online.	4
Online resources available – Repeat of information in text.	3
Online resources available – Practice skills only.	3
Online resources available – New application materials.	0
Comments:	Total 26

Rating Scale:	
4—All or the time	2—Minimally
3—Some of the time	1—None of the time
	0— Not applicable